An Epay
on the
Nature and Treatment

That disease of the respiratory system

Generally called

Eroup.

By William P Williams

of Maryland.

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By William Philliams

An Essay &c.

It is my design in the following pages, to present a few genual obsurations, on the pathology and treatment, of that diserve called, Cyrhanche Trachealis or Croup, which is centimed principally to the Lyrans, though sometimes extending itself down the Trachea into the Bronchia and even into the air cells of the Lungs.

To this various names have been given by different writers, as Angine Polypora sive Membranacea, bynanche Laryengea, hachitis and the popular name of broup or Hives. Or Chapman says the tist obsological title, that we can apply to it, is hachitis. It is considered to be of modern date, and the credit of having given us a correct edua of the credit of having given us a correct edua of the credit of the weng given us a correct edu of the fast continue. But we may find an account given of it, some sorbin than that, by an Italien Martin

Brary in 1140. Cymonche Frachsalis may occur in spersons of both speers and every age, though it is strictly spraking confined to early life, prevailing among children from the furt, to the seventh year of life but sometimes it occurs as early as the third month and also in adults, there ears are however rare. Children that her man the sea or large bodies of water are perticularly liable to croup, though it altacks children of the midland countries as well as those who live mear the sea. It does not appear to be contiguous, and its attacks are frequently repeated in the same while

Symptoms.

It is to be known by a house voice, a dry booking cough, fever, anxiety restlipup, the child thous etself into different portures and count be recombined it cries, whims and frets, is always unexy; and sometimes accompanied by a swelling of the throat, about

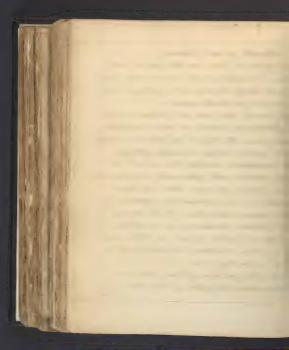
about the place of the Layena; and as the disease advances, there is flushed face and lividings of the lips attending it. It sometimes comes on with The ordinary symptoms of a common Catarrh, then sometime before the approach of Group, the child is petful, inactive and drowry, the eyes are somewhat suffered and the complexion livin; There is some degree of cough, which increases until the disease is confirmed. The attack most frequently comes on in the might, sometimes soon after the child is put to bed, but more frequently about midnight.

Causes of Frachitis.

It has been alleged to arise from contagion, but it is pretty well decide, that it is not contagious - Gullen is of the opinion, that it may affect the Layers and Trachea, from Gynanche Tonsillaris and maligna spreading into them - But we have no

reason to believe, that it is produced by either of these causes. It seems to be produced by exposure to cold or humidity, and is therefore connected with changes in the weather; hence it prevails during the winter and spring, but most generally in the spring months of the year - And the presence of worms has been known to produce Group. By some it is said to be Epidemic, and this appears to have been the case in the neighbourhood of Alexandria in virginia in The year 1799, the period at which, our illustrious Washington, is said to have fallen a victim to it. And it likewise appears to have been the care in Philadelphia in The winter of 1809-10, when the disease was productive of considerable mortality. For it was said that the weather was regular and pleasant for the season; yet, for several weeks, croup prevailed with the

the character of an epidemic. This appears to have been the case at Luth, when it prevailed, with great mortality, while it was hardly known at Edingburgh, which are only a few miles seperate. It is scracely ever seen in Baltimore, whilst at Hells-point, which is only a small distance from the City, it prevails to a consider able extent every succeeding spring. By Norological writers this direase has been divided into sparmodic and inflammatory. It is Gullens opinion, that the disease consists in an inflammatory affection of the mucous membrane of the Largenx and Trachea producing an exudation analogous to that found on the surface of inflamed viscera, and partly in a fluir resembling prus. But the opinion of our able and distinguished Rogefor of the theory and



practice of medicine in the University of Tennsyelvania, differs from that of Eullen; which I will now give; to me however it appears that all cases of Cynanche Trachealis, which come on suddenly must partake of the spasmodic character. And this is proved not only by the early symptoms of the disease, which correspond with this view of its pathology; but by defections and there have been frequently made after sudden death, and they have not shown any of the phenomona of preexisting inflammation; here then death must have taken place from a sparmodic constriction of the Layens. But where the disease comes on slowly and is the effect of gradually extending inflammation then it is of course an inflammatory affection.



Dr. Ferriar in his medical history says, there can be no doubt, that the genuine croup is a disease highly inflammatory. He mentions two cases where examinations post morten was permitter; I found says he, the internal surface of the Grachea, near the Laryna affected with the most violent inflammation. The membrane so much talked of by the first writers on this disease, appeared in both of these difections, to be nothing more than inflammatory exudation. But difections in this City have shown quite the reverse of Dr. Ferriars; for they have not shown any apperance of inflammation. But whether the case be spasmodic or inflammatory, we are in either case to

inflammatory, we are in either case to adopt precisely the same treatment. It is of great imprortance to form an accurate opinion, respecting the treatment



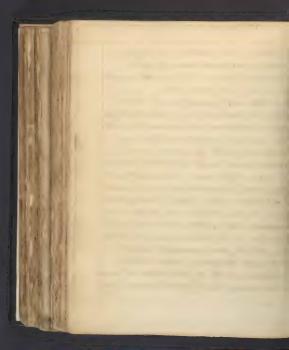
of this disease, which is very short in its duration, and attender with extreme danger.

Treatment.

That which I shall give, will be that which I have derived from the enlightened Professor of the practice in this University. Called to a child attacked with Cynanche Trachealis, I would commence with the admin. istration of Emetics; and the best of there, is a combination of Tartar Emetic, Thecacuanha and Calomel, it is one of the most certain of all emitics, or Tartar Emitic alone, repeated at short intervals in large doses; at the same time, the child should be put in the warm bath for five, ten or fathein minutes. The warm bath is a very unful remedy and has aften affected a cure by strelf, it also promotes the operation of The emitic; But if the emitie should



not operate, or not produce any benificial impression, we must resort to copious venisection and at the same time, repeat the emetic and warm bath. The attack will generally yell to this, if it not, it must be very abstinate, though it will sometimes continue in spite of all these powerful remedies, without any abatement of the symptoms. Then we must resort to topical bleedings by cups or leeches, and if we employ cupo They should be applied to the sides or back of the neck. After topical bleeding, blisters applied to the throat, will be found very beneficial. But if there should fail or the symptoms still continue, we shall hardly ever fail to give immediate relief, by bleeding ad deliquium arumi- when Venesection is used to this extent it always proves successful. Projessor Chapman says.



never to his knowledge has it faile in one. single instance. The houseness, cough, diffi culty of respiration and the other symptoms of the complaint subside in a moment. The disease being broken, we should administer balomel in as large doses as possible, in order to produce very active purging, for if it is administered in small doses and repeated as generally recommended, it will be of little or no advantage; but when administered in large dores, it then effectually opens the howels, and carries of the lingering remains of the disease, prevents a relapse and promotes the recovery. Some of the most respectable practitioners, both of this country and of Europe, trust exclusively to Calomel in the treatment of Cymanche Trachealis. It was originally employed in Group, by the late Intuhin

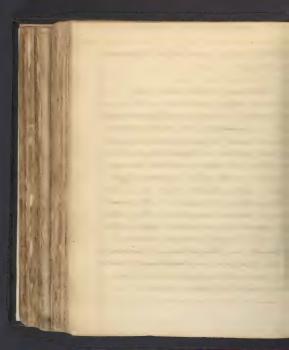


of this City, who prescribed it in the year 1770. The scotch physicians are divoted to the amedy and consider it, as almost infallible, or at least it sums to be the opinion of some of their most distinguished writers. De Hamilton says, that in every case where he employed it previous to the occurrence of the lividness of the lips, and other mortal symptoms, it has completely succeeded, both in curing the disease and in preventing any shock to the child's constitution. His manner of exhibiting the Colomel, would appear daring were we not acquainted with the insensibility of the system in this disease. To a child of two years ole, he has given upwards of one. hundred grains in twenty-four hours. The practitioners of Edinburgh trusted almost entirely to Calonel in the Greatment of this disease, they give from 31 to 311. to



a child two or three years old, in the course of twenty-four hours.

Treatment in the latter Stage. This must differ from that in the commence. ment; where hourseness, cough, difficult respiration and tightness of the chert continue, we must resort to expectorants; and among the best of these, is Volgala Lenega, it is here that it displays its best powers. Dr. Ancher of Maryland speaks of Polygala Senega with unlimited praise, he will it in every stage of croup, but the correct opinion seems now to be, that it is only adapted to the latter stages of the disease. Dr. Ancher also wie conssive sublimate in the following manner; disolved two grains in ounce of water, dose 1,2 or 3 gtt. every quarter, half, or one hour, until it proves emetil.



Dr. Coxes hive syrup is highly beneficial in this disease; it is made as follows -R. Seneca Inake root, bruise, Squills, dried and bruise of each half pound Water eight pounds. Boil together over a slow fire, till the water is half consumed; strain of the ligher. then add of strainer honey, four founds. Boil the honey and strain the liquor to six pounds, or the consistence of a syrup, and add to every pound of this syrup grs. XVI of Fartar Emetic, that is one grain to the ounce. Dose varies from ten drops, to one or more tea-spoons ful, every quarter, half, or one hour according to the age of the patient, or the violence of the disease. It operates by fruging, vomiting, and sweat. Dr. Coxe mentioned in his between this wenter; that a small quantity of Thebaic Tincture or Varegoric Elixir given to a child, when



about going to sleep is found extremely useful in Croup.

The Oxymel of squills has also been found unful; made as follows,

Ro, Clarified honey three pounds

Vinegar of squills, two prints,

Bail them in a glass vefrel, with a slow fire, to the thickness of syrup. It is given in dores of two or three drachms along with some aromatic water, as that of Einnamon. The juice of Onions or Garlic has been recommended in the latter stages of Trachetis, and we shall after succeed in putting a chile with this when all our other remedies fail. Cynanche Trachealis in its latter stage, is restricted to the Trachea and is a spasmodic affection of the muscles or an inflammation of the mucous membrane of the Tracker; but if it is allowed to continue for eight or ten hours, the inflammation extends itself into



the Bronchia and Lungs, a great quantity of phliam is accumulated and the prutmonary vilsels are loaded and we have Peripneumonia Notha. The symptoms now are very different: at the commencement of the attack, the symptoms, are hourse voice, a dry backing cough, fever, anxiety, restlepness, the child throws itself into different postures and cannot be reconciled, it cries, whims and pets, is always uneary-The disease continuing, the circulation becomes interrupted in the lungs, they perform their office imperfectly - The cheeks are flushed, the eyes are prominent, the pupils dilated and the countenance will and haggard; the respiration very laborious, with a feeble puble, or the chile sinking under the disease, the respiration will be observed to be rather more easy, and in this situation the pulse will be found weak and fuble .-The disease is now a Peripneumonia and must



be treated accordingly. First equalise the circulation, by putting the patient in the warm bath and administering an Emetic of Sulphate of Zine or Fartarised Antimony, and when the pulse will admit, a little blood should be drawn, but this should be done cautiourly, watching the effects produced and if they are beneficial, we may go on bleeding until, we subdue the disease; but when general bleedings are inadmifible, cups and lesches must be applied, there will be found very useful. As afristing with there remedies a blitter over the whole chest, or if the case is very urgent we may apply prices of linew difit in boiling water or in a decoction of Turpentine and Cantharides, with the view of producing resication.

The subsequent treatment consists in the plentiful use of expectorants, the antimorial win



wine, the oxymel or the Vinegar of Squills. The vinegar of squills is made as follows; Ro, Squills recently dried, the vinegar Pts Vi. Proof Spirit It fs. Macerate the squills with the vinegar, with a gentle heat for twenty four hours, express the liquor, and set it arive until the fices subside, then add the spirit; dore from a drachm to a half ownce, with some aromatic water. The decoction of Inake root will answer very well at this period, and much advantage will be derived from the liberal use of Calomel, which is an excellent expectorant.

There has been a great said about a membrane lining the internal surface of the Grachea; which is sometimes the cause of difficult respiration attending this complaint; that it does now and then exist is not denied, but it is said to be

all the rings with a good best of welfer her while the live on a half sand will son ogmall and in december of Sathe with well array

of rare occurrence; however it exists oftener than is generally imagine, and the reason why it is not found afterer in examinations post morten, is that, it is frequently coughed rep; for which I cite the high authority of Dr. Physick. Under the impression that this membrane obstructed respiration the operation of hackeotomy has been proposed, whether this be a good practice or not, I cannot say. To the remedies already enumerated, might be added more, if it were requirite; I have given those which are most efficacious and with which I am pleased to say, that we can attack the disease, with confidence of success, when judiciously administered.

also wife to which I who this high House of De Plynis doe the industrian that this members mother underallow the dustress of checking has been hackoris whether a le to dood traction or met somet son